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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/907,635	08/08/97	ENOKIDA	M 35.C10457CON

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EXAMINER

HONG, S

ART UNIT	PAPER NUMBER
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2776

DATE MAILED: 05/23/00

38

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

08/907,635

Applicant(s)

Enokida et al

Examiner

Hong

Group Art Unit

2776

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Response

A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a response be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for response specified above is less than thirty (30) days, a response within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for response is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to respond within the set or extended period for response will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- ☒ Responsive to communication(s) filed on 3-7-00.
- ☒ This action is FINAL.
- ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- ☒ Claim(s) 1, 36, 45, 47-51 and 53-61 is/are pending in the application.
- Of the above claim(s) 53-61 is/are withdrawn from consideration.
- ☐ Claim(s) _____ is/are allowed.
- ☒ Claim(s) 1, 36, 45, 47-51 is/are rejected.
- ☐ Claim(s) _____ is/are objected to.
- ☒ Claim(s) 53-61 are subject to restriction or election requirement.

Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- ☒ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received.
- ☐ received in Application No. (Series Code/Serial Number) _____.
- ☐ received in this national stage application from the International Bureau (PCT Rule 1.7.2(a)).

*Certified copies not received: _____.

Attachment(s)

- ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____
- ☐ Interview Summary, PTO-413
- ☐ Notice of References Cited, PTO-892
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Other _____

Office Action Summary

Part III DETAILED ACTION

1. This action is responsive to communications: amendment filed on on 3/7/2000 to the CPA filed 6/19/99 to the application filed 8/8/97, which is a FWC of the application Ser. No. 09/378,819, filed 1/27/95.
2. In the amendment claims 2-13, 37, 40-44, 46 and 52 have been canceled and claims 53-61 have been added. Accordingly, claims 1, 36, 45, 47-51 and 53-61 are pending in this case.

Election/Restriction

3. Newly submitted claims 53-61 directed to an invention that is independent or distinct from the invention originally claimed for the following reasons:
4. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1, 36, 45, 47-51, drawn to editing decoded image data, classified in class 345, subclass 473.
 - II. Claims 53-61, drawn to display image resolution processing, classified in 345, subclass 132.
5. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the

instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the invention I can be used for moving image encoded format conversion. The subcombination has separate utility such as a generic animation displays.

6. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

7. Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 53-61 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP §

Priority

8. Receipt is acknowledged of papers submitted under 35 U.S.C. § 119, which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371⁹ of this title before the invention thereof by the applicant for patent.

10. Claims 1, 36, 45 and 47 remain rejected under 35 U.S.C. 102(e) as being anticipated by Bonomi, U.S. Pat. No. 5,577,191, 11/96 (filed 2/94).

As per independent claim 1, Bonomi discloses the following claimed elements of a moving image editing apparatus:

- converting means for converting encoded moving image data encoded by an encoding method that includes encoding using interframe correlation to an intraframe encoded moving image (col.2, line 54, "The video compression circuit ...compress the video data ...using both interframe and intraframe algorithm ...[and the] video decompression circuit decompresses intraframe-only compressed video data to allow editing");

- storing means for intraframe coding the decoded moving image data and storing the intraframe encoded image data (col.4, line 25, "...in FIG.2, intraframe-only compressed video data is retrieved from storage" shows that the data have been stored.);

- editing means for decoding the image data which was stored in said storing means and intraframe encoded, and for performing an arbitrary editing on the encoded image data (col.2, line 57, "intraframe-only compressed video data ...allow video editing to occur in the host processor."); and

- coding means for coding the edited image data by a moving image encoded method (col.2, line 59, "When the video editing is complete, the videothe video compression circuit to compress the video data using both intraframe and interframe algorithm.").

Independent claim 36 is for a method performed by the apparatus of claim 1, and is similarly rejected under the same rationale.

Independent claims 45 and 47 recite substantially similar limitations as claims 1 and 36, respectively, and are similarly rejected under the same rationale. Furthermore, Bonomi teaches that the moving image data are encoded by MPEG (see col.1, lines 25 + , "the standard is the MPEG...").

Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

12. Claims 48 and 50 remain rejected under 35 U.S.C. § 103 as being unpatentable over Sugiyama, U.S. Pat. No. 5,315,326, 5/94 (filed 4/92) in view of Nguyen, U.S. Pat. No. 5,404,437, 4/95 (filed 11/92) and of Normille et al., U.S. Pat. No. 5,267,334, 11/93. All references previously provided to the applicants.

As per independent claim 48, Sugiyama discloses **decoding moving image data encoded by an encoding method that includes at least encoding in intraframe correlation** (col.5, line 21, "Since respective frames are independently coded..." shows that each frame is

coded with intraframe correlation, and not interframe correlation.; col.4, line 9, "...detecting ...pixel of an image ...where interframe or interfield processing is carried out") ; storing means for storing the moving image data (col.4, lines 11-19; and col.3, lines 48-53, "independently coding respective frames ...so that respective frames can be independently handled"). However, Sugiyama does not disclose an editing means for **arbitrary** edition. That feature is taught by Nguyen (col.2, lines 3-11, "An animation sequence generator decompresses and stores information representing the pixel data ...synchronizes the animation sequence..."). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have used Nguyen's apparatus to edit the animation data of Sugiyama, since Sugiyama has pointed out that intraframe coded images "mak[e] it possible to easily carry out ... random access, high speed search or image editing in media of the storage system (col.3, lines 54-57)."

Secondly, Sugiyama does not explicitly show the means for detecting and decoding the image and a predetermined number of frames after the detected image. This feature, however, is shown by the prior art of Normille. Normille discloses **detecting an intraframe** (col.7, line 59, "detecting a first scene ...known, in a preferred embodiment, as a ...intra frame"); and **decoding the image and a predetermined number of frames after the detected image** (col.7, line 66, "generating at least one intermediate compressed frame...containing difference information from the first image for at least one image following the first image in time in the sequence of moving images") **decoding moving image data encoded by an encoding method that includes encoding in which intraframe correlation is considered** (col.5, line 21, "Since

respective frames are independently coded..." shows that each frame is coded with intraframe correlation, and not interframe correlation.). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have combined the teaching of Normille, Sugiyama and Nguyen, since Normille's apparatus linked the frames to create forward and backward play (col.8, lines 9-16), and Sugiyama and Nguyen provided the apparatus for performing the frame edition.

Furthermore, although Sugiyama does not explicitly disclose that the moving image are encoded in MPEG format, such would have been obvious to a person of ordinary skill in the art at the time of the invention, since Normille explicitly suggests using the MPEG encoding when the standard is finished (col.6, lines 38-45), and Applicant disclosed in the Background of Invention (page 1), that MPEG coding was an international standard for motion video interframe compression at the time of the invention.

Independent claims 50 recites substantially similar limitations as claims 48, and is similarly rejected under the same rationale. Furthermore, Sugiyama teaches that the image data is encoded in H.261 (col.3, line 10).

13. Claims 49 and 51 remain rejected under 35 U.S.C. § 103 as being unpatentable over Bonomi in view of Normille et al., U.S. Pat. No. 5,267,334, 11/93.

Independent claims 49 and 51 recite substantially similar limitations as claims 1 and 36, respectively, and are similarly rejected under the same rationale. Furthermore, Bonomi only teaches that the moving image data are encoded by MPEG, encoding in H.261 would have

been obvious to a person of ordinary skill in the art at the time of the invention, since Normille explicitly pointed out that H.261 and MPEG were both extremely well known standards.

Response to Amendment

14. Applicant's arguments filed 3/7/00 have been fully considered but they are not persuasive.

On page 6 of the amendment Applicant makes the following arguments:

Applicants submit that their JP '083 priority document was filed in Japan January 31, 1994, prior to Bonomi's U.S. filing date of February 17, 1994. Applicant's respectfully submit that JP '083 provides proper support for the pending claims, and thus antedates the Bonomi reference. Accordingly, it is respectfully submitted that the rejection has been overcome and the application is now in condition for allowance.

In response to the above argument, which Applicant has continued to present since the amendment filed 8/18/98 (Paper #22), Examiner would like to make the following statements to clarify the record.

The present application claims the foreign priority under 35 U.S.C. § 119 based on two Japanese patent applications: application 6-010083 filed 1/31/94 (hereinafter JP '083) and application 7-007389 filed 1/20/95 (hereinafter JP '389). Both applications teach the techniques of decoding encoded-video frames for user editing. However, there is a MAJOR difference between the two applications. The JP '083 application only teaches detecting and decoding the intraframe-encoded frames (i.e., the frame is compressed with information within

its own frame) for editing. The JP '389 application also teaches detecting and decoding the intraframe-encoded frames, but also teaches decoding the interframe-encoded frames (i.e., the frame is compressed with information from other frames) and converting them into intraframe-encoded frames for editing.

Simply put, the earlier filed JP '083 application does not provide the support for "converting means for converting encoded moving image data encoded by an encoding method that includes encoding using interframe correlation to an intraframe encoded moving image" in Claim 1, for example.

Conclusion

15. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steve Hong whose telephone number is (703) 308-5465. The examiner can normally be reached on Monday-Friday from 8:00 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi, can be reached on (703) 305-4713.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Serial Number: 08/907,635
Art Unit: 2776

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Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231


or faxed to:

(703) 308-9051, (for formal communications; please mark "EXPEDITED
PROCEDURE")

Or:

(703) 305-9724 (for informal or draft communications, please label
"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA.,
Sixth Floor (Receptionist).



Stephen Hong

Primary Examiner

May 19, 2000